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PATENT  
01393-P0074A GSW/TMO

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	Pierre Talbot, <i>et al.</i>
Serial No. 10/667,638	Filing Date: September 22, 2003
Title of Application:	Coconut Mesocarp-Based Biofilter Material And Its Use In A Wastewater Treatment System
Confirmation No. 1107	Art Unit: 1723
Examiner	

Commissioner for Patents  
Post Office Box 1450  
Alexandria, VA 22313-1450

**Information Disclosure Statement by Applicants**

As a means of complying with the duty of disclosure set forth in 37 CFR §1.56, Applicants list the following references (copies of the listed patents and papers enclosed).

U.S. Patent Documents				
Exam. Initials	Class/ Subclass.	Document No.	Date	Name
<del>_____</del>	210/602	6,620,321 B2	9/03	Festa et al.
<del>_____</del>	210/617	US 2002/0134728 A1	9/02	Festa et al.
<i>C</i>	502/404	5,206,206	4/93	Buelna et al.
<i>C</i>	210/150	5,049,265	9/91	Boyd et al.

Previously  
listed

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November 1, 2004

Tamara L. Millikan

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**Third Supplemental Information Disclosure Statement by Applicants**

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C	—	2,888,095	11/1956	Perrini et al.

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September 16, 2004

Gregory D. Venuto



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**2nd Supplemental Information Disclosure Statement by Applicant**

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U.S. Patent Documents				
Exam. Initials	Class/ Subclass.	Document No.	Date	Name
C	210/242.4	4,861,475	8/1989	Peterson
	<del>210/150</del>	<del>5,049,265</del>	<del>9/1991</del>	<del>Boyd et al.</del>
C	427/3	5,106,648	4/1992	Williams et al.
	<del>502/404</del>	<del>5,206,206</del>	<del>5/1993</del>	<del>Buelna et al.</del>
C	210/611	5,264,129	11/1993	Simpson et al.

Previously  
list - 2

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March 22 2004

Gregory D. Venuto




Page 2  
Serial No. 10/667,638  
Supplemental Information Disclosure Statement

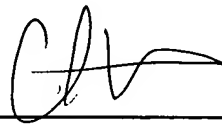
The listed patents pertain in a general way to the subject matter of the application, but are not necessarily considered to be analogous prior art.

Respectfully submitted,

January 20, 2004

  
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Date Considered

  
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Examiner

U.S. Patent Documents				
Exam. Initials.	Class/ Subclass.	Document No.	Date	Name
C	210/238	6,010,626	1/4/2000	D'Agostino
	210/671	6,027,652	2/22/2000	Hondroulis, et al
	210/150	6,033,559	3/7/2000	Bender, et al
	210/688	6,033,573	3/7/2000	Toles, et al
	502/404	6,107,242	8/22/2000	Ackerman, et al
	210/666	6,165,366	12/26/2000	Sarangapani
	210/195.3	6,174,433	1/16/2001	Futami
	47/9	6,189,260	2/20/2001	Kusey et al.
	210/502.1	6,224,768	5/1/2001	Navarre, et al.
	210/500.25	6,383,386	5/7/2002	Hying, et al.
	134/7	6,391,120	5/21/2002	Silva
	210/164	2001/0047955	11/29/1999	Chinn, et al
	210/767	2002/0008071	1/24/2002	Chinn
	210/741	2002/0030020	9/10/2001	Moorehead, et al.
	210/94	2002/0060176	9/27/2001	Mierau, et al.

Foreign Patent Documents			
Exam. Initials	Document No.	Date	Country
C	FR2692833	6/30/92	France (with English Abstract)
	0 348 670	5/26/1989	Europe (with English Abstract)
	11 291272	4/7/1998	Japan (with English Abstract)
	57 187003	5/11/1981	Japan (with English Abstract)
	61220797	3/25/1985	Japan (with English Abstract)

Page 3  
Serial No. 10/667,638  
Information Disclosure Statement

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Respectfully submitted,

January 6, 2004



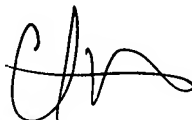
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3/14/05

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Date Considered



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Foreign Patent Documents			
Exam. Initials	Document No.	Date	Country
	<del>DE 4445440 C1</del>	<del>12/94</del>	<del>Germany</del>
	<del>DE 4415963 A1</del>	<del>5/94</del>	<del>Germany</del>
	<del>DE 19530760 A1</del>	<del>8/95</del>	<del>Germany</del>

*Previously  
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The listed patents pertain in a general way to the subject matter of the application, but are not necessarily considered to be analogous prior art.


Respectfully submitted,

November 1, 2004

  
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Other Documents	
Exam. Initials	Description (Author, Title, Date, Pages, etc)
	Ismail. M.R. et al., Effects of Water Availability on Growth, Water Relations, Physiological Processes and Yield of Tomatoes Grown in Coconut Coir (Cd): Peat Mix Peat in Horticulture/Posters, Botanical Physical and Chemical Properties of Peat Products pp. 176-180.
	Radjagukguk, B. et al. A Comparative Study of Peats and Other Media For Containerized Fore Tree Seedlings
	Bandyopadhyay, Swati, P.M. et al. Transient Behavior Of A Coconut Shell Pyrolyzer: A Mathematical Analysis, 1996 Ind. Eng. Chem. Res 35, Art. 1711, pp. 3347-3355.
	Chweya, J.A. et al. Preliminary Studies on Some Local Materials For Propagation Media, 1978, E. African Agric. For J. 43(4) Art. 1799-pp. 327-333.
	Pillai, C.K.S., et al. A Mechanical Study of the Deterioration of Coconut Leaf Thatch Under Natural and Accelerated Environmental Conditions, 1982, Journal of Materials Science 17, Art. 2124, pp. 2861-2868.
	Satyanarayana, K.G. et al. Structure Property Studies of Fibers From Various Parts of the Coconut Tree, 1982, Journal of Materials Science, Art. 2123, pp. 2453-2462.
	Remison, S.U. et al. Effect of Salinity on nutrient content of the leafs of coconut seedlings; 1988, Plant and Soil 109, C. Kluwer Academic Publishers, pp 135-138.
	Pryce, Suki, Alternatives to Peat, 1991, Professional Horticulture, Vol. 5 pp. 101-106
	Jeganathan, M. Nut Water Analyses As A Diagnostic Tool in Coconut Nutrition Studies, Commun. Soil Sci. Plant Anal., 23 (17-20), pp. 2667-2686.
	Ismail, M.R. et al., Effects of Water Availability On Growth, Water Relations, Physiological Processes And Yield Of Tomatoes Grown in Coconut Coir (CD): Peat Mix, Peat in Horticulture/Posters, Botanical Physical and Chemical Properties of Peat Products, pp. 176-180.
	Handreck, Kevin A., Properties of Coir Dust, And Its Use In the Formulation of Soilless Potting Media, 1993, Commun. Soil Sci. Plant Anal., 24 (3&4) pp. 349-363.
	Meerow, Alan, W. The Potential of Coir (Coconut Mesocarp Pith) as a Peat Substitute in Container Media, 1993, Foliage Digest, Vol. XIV No. 12.



Other Documents	
Exam. Initials	Description (Author, Title, Date, Pages, etc)
C	Muniswaran, P.K. Ananda et al., Production Of Cellulases From Coconut Coir Pith In Solid State Fermentation, 1993, J. Chem. Tech. Biotechnol. 60, pp. 147-151.
	Meerow, Alan, W. Growth of Two Subtropical Ornamentals Using Coir (Coconut Mesocarp Pith) as a Peat Substitute, 1994, HortScience, (29(12) pp. 1484-1486.
	Coconut By-Product Used As Peat Substitute, September 1997, Biocycle World
	Namasivayam, C. et al. Coirpith, An Agricultural Waste By-Product, For The Treatment Of Dyeing Wastewater, 1994, Elsevier Science Limited, pp. 79-81.
	Ingelmo, F. et al., Use of MSW Compost, Dried Sewage Sludge And Other Wastes As Partial Substitutes For Peat And Soil, 1998, Bioresource Technology. pp. 123-129.
	Konduru, S. et al., Source And Processing Affects Chemical And Physical Properties Of Coir Dust, 1996, HortScience, Vol. 31(4), Poster Session (Abstr. 535-546).
	Evans, Michael R. et al., Growth Of Bedding Plants In Sphagnum Peat And Coir Dust-Based Substrates, 1996, J. Environ. Hort 14(4) pp.187-190.
	Evans, Michael R. et al., Source Variation In Physical And Chemical Properties Of Coconut Coir Dust, 1996, HortScience 31(6), pp. 965-967.
	Kwon, Kisung et al., Fractionation And Characterization Of Proteins From Coconuts (Cocos Nucifera), 1996, J. Agric. Food Chem 44, pp. 1741-1745.
	Merrow, Alan W., Coir Dust, A Viable Alternative To Peat Moss, January 1997, Greenhouse Product News, pp. 17-21.
	Satya, Sai P.M. et al., Production of Activated Carbon From Coconut Shell Char In A Fluidized Bed Reactor, 1997, Ind. Eng. Chem, Res. pp. 3625-3630.

Other Documents	
Exam. Initials	Description (Author, Title, Date, Pages, etc)
Ch	Stamps, Robert H. et al. Growth Of Dieffenbachia Maculata "Camille" In Growing Media Containing Sphagnum Peat Or Coconut Coir Dust, 1997, HortScience 32 (5), pp. 844-847.
	Susuki, S. et al. Compositional And Structural Characteristics Of Residual Biomass From Tropical Plantations, 1998, J. Wood Sci. 44, pp. 40-46.
	Mbah, Benjamin N., Changes In Moisture Retention Properties Of Five Waste Materials During Short-Term Mesophilic Composting, 1998, Compost Science & Utilization, Vol. 6, No. 4, pp. 67-73.
	Zizumbo-Villarrel, Daniel et al., Pattern Of Morphological Variation And Diversity Of Cocos Nucifera (Arecaceae) In Mexico, 1998, American Journal of Botany 85(6), pp. 855-865.
	Martin-Guillon, Ignacio et al., Comments On Production Of Activated Carbon From Coconut Shell Char In A Fluid Bed Reactor, 1999, Ind. Eng. Chem. Res. 38, pp. 1166-1168.
	Tam, Man S. et al, Preparation Of Activated Carbons From Macadamia Nut Shell And Coconut Shell By Air Activation, 1999, Ind. Eng. Chem. Res. pp. 4268-4276.
	Satya Sci, P.M. et al., Rebuttal To Comments On Production Of Activated Carbon From Coconut Shell Char In A Fluidized Bed Reactor, 1999, Ind. Eng. Chem, pp. 1169-1171.
	Eymar, Enrique et al., Continuous Measurement Of Substrate Electrical Conductivity In Container Grown Plants
	Konduru, S. et al., Coconut Husk And Processing Effects On Chemical And Physical Properties Of Coconut Coir Dust, 1999, HortScience 34 (1), pp. 88-90.
	Castillo, M. et al., Determination Of Non-Ionic Surfactants And Polar Degradation Products In Influent And Effluent Water Samples And Sludges Of Sewage Treatment Plants By A Generic Solid-Phase Extraction Protocol, 2000, Analyst 125, pp. 1733-1739.
	Viswanathan, R. et al., Pressure Density Relationships And Stress Relaxation Characteristics Of Coir Pith, 2001, J. Agric Engng. Res. 78 (2), pp. 217-225.
	Huang, Jenn-Wen et al. A Formulated Container Medium Suppressive To Rhizoctonia Damping Off Of Cabbage, 2000, Bot. Bull. Acad. Sin. 41, pp. 49-56.
	Batalon, Juanito T. et al., Optimization Of Coir Dust Compaction Using The Response Surface Methodology Approach, 2001, J. Agric. Engng. Res. 78 (2). Art. 2063, pp. 167-175.

Other Documents	
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	de Kreij, C. et al., Growth of Pot Plants In Treated Coir Dust As Compared To Peat, 2001, Commun. Soil Sci. Plant Anal. 32 (13 & 14), pp. 2255-2265.

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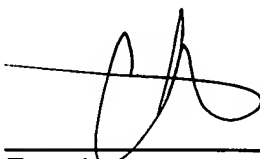
March 22, 2004



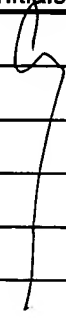
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Date Considered




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Foreign Patent Documents			
Exam. Initials	Document No.	Date	Country
	302,446	12/1928	GB
	2127726	12/1972	DE
	44 45 440 C1	12/1995	DE (with English abstract)
	195 30 760 A1	2/1996	DE (with English abstract)
	44 15 963 A1	9/1995	DE (with English abstract)
	WO 02/26352 A1	4/2002	PCT

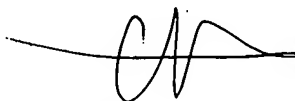
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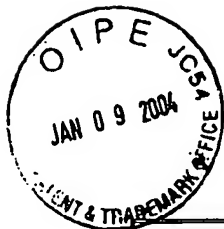
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C	210-23	4,160,727	7/10/1979	Harris, Jr.
	549/349	5,274,129	12/28/1993	Natale, et al.
	210/502.1	5,750,026	5/12/1998	Gadkaree, et al.
	210/85	5,868,924	2/9/1999	Nachtman, et al.

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January 7, 2004

  
Linda A. Ferranti



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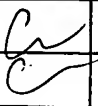

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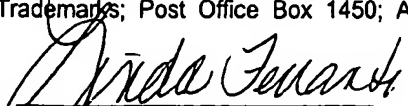
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Linda A. Ferranti